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**SUPPLEMENTAL INFORMATION  
DISCLOSURE  
STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet	1	of	1
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**Complete if Known**

<b>Application Number</b>	<b>10/727,724</b>
<b>Filing Date</b>	<b>DECEMBER 3, 2003</b>
<b>First Named Inventor</b>	<b>HU, ET AL.</b>
<b>Art Unit</b>	<b>3723</b>
<b>Examiner Name</b>	<b>DAVID B. THOMAS</b>
<b>Attorney Docket Number</b>	<b>AMAT/4100 P9/PPC/CMP/RKK</b>

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>2</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
WJZ	B1	JP 06-047678 (English Abs.)	02/22/1994	Kawasaki Steel Corp.		X
	B2	JP 11-216663	12/12/2000	Sony Corp.		
WJZ	B3	WO 00/71297	11/30/2000	Lam Research, Corp.		

**Examiner  
Signature**

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

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PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

Application Number	10/727,724
Filing Date	December 3, 2003
First Named Inventor	Hu, et al.
Group Art Unit	3723
Examiner Name	David B. Thomas
Attorney Docket Number	AMAT/4100.P9/CMP/CMP/RKK
Submission Date	May 18, 2005

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		Number-Kind Code <sup>2</sup> (if known)			
A1	A1	US-4,047,902	09/13/77	Wiand	
	A2	US-4,082,638	04/04/78	Jumer	
	A3	US-4,523,411	06/18/85	Freerks	
	A4	US-4,704,511	11/03/87	Miyano	
	A5	US-5,011,510	04/30/91	Hayakawa, et al.	
	A6	US-5,066,370	11/19/91	Andreshak et al.	
	A7	US-5,137,542	08/11/92	Buchanan, et al.	
	A8	US-5,203,884	04/20/93	Buchanan, et al.	
	A9	US-5,328,716	07/12/94	Buchanan	
	A10	US-5,560,753	10/01/96	Schnabel et al.	
	A11	US-5,633,068	05/27/97	Ryoke et al.	
	A12	US-5,654,078	08/05/97	Ferronato	
	A13	US-5,702,811	12/30/97	Ho et al.	
	A14	US-5,840,190	11/24/98	Scholander, et al.	
	A15	US-6,319,108	11/20/01	Adefris, et al.	
	A16	US-6,368,190	04/09/02	Easter, et al.	
	A17	US-6,383,066	05/07/02	Chen, et al.	
	A18	US-6,537,140	03/25/03	Miller, et al.	

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		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)				
B1	B1	JP 58-171264 (English abstract)	10/7/1983	Nitto Electric		X
	B2	JP 61-079666 (English abstract)	4/23/1986	Fujitsu		X
	B3	JP 63-028512 (English abstract)	2/6/1988	Hitachi Ltd.		X
	B4					
	B5					

Examiner

Date Considered

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PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/727,724
		Filing Date	December 3, 2003
		First Named Inventor	Hu, et al.
		Group Art Unit	3723
		Examiner Name	David B. Thomas
		Attorney Docket Number	AMAT/4100.P9/CMP/CMP/RKK
Sheet 2	of 3	Submission Date	May 18, 2005

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		Number-Kind Code <sup>2</sup> (if known)			
<i>BT</i>	A19	US-6,656,019	12/02/03	Chen, et al.	
	A20	US-6,685,548	02/03/04	Chen, et al.	
	A21	US-6,739,951	05/25/04	Sun, et al.	
	A22	US-6,752,700	06/22/04	Duescher	
	A23	US-6,769,969	08/03/04	Duescher	
	A24	US-6,848,977	02/01/05	Cook et el.	
	A25	US-2002/0025760	02/28/02	Lee et al.	
	A26	US-2002/0146963	10/10/02	Teetzel	
<i>BT</i>	A27	US-2003/0040188	02/27/03	Hsu, et al.	
	A28	US-			
	A29	US-			
	A30	US-			
	A31	US-			
	A32	US-			
	A33	US-			
	A34	US-			
	A35	US-			
	A36	US-			

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B6					
	B7					
	B8					
	B9					
	B10					

Examiner

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Substitute for form 1449B/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/727,724
		Filing Date	December 3, 2003
		First Named Inventor	Hu, et al.
		Group Art Unit	3723
		Examiner Name	David B. Thomas
		Attorney Docket Number	AMAT/4100.P9/CMP/CMP/RKK
Sheet 3	of 3	Submission Date	May 18, 2005

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C1	Partial International Search / PCT Invitation to pay additional fees dated Nov. 14, 2002 (4100 PC 02)	
	C2	Notification regarding review of justification for invitation to pay additional fees for PCT/US/02/11009 (4100 PC 02) dated February 25, 2003	
	C3	International Search Report for PCT/US 02/11009 (4100 EP 02) dated February 25, 2003.	
	C4	PCT Written Opinion dated April 1, 2003 for PCT/US02/11009. (4100 EP 02)	
	C5	Notification of Transmittal of International Preliminary Examination Report dated November 10, 2003 (4100 EP 02)	
	C6	European Search Report for 03252801.0, dated January 16, 2004 (7047 EP).	
	C7	Communication pursuant to Article 96(2) EPC for Application No. 02728965.4, dated June 11, 2004 (4100 EP 02)	
	C8	Copy of Search Report issued by the Austrian Patent Office for corresponding Singapore Patent Application No. 200302562-4, provided by letter dated October 7, 2004.	
	C9	Invitation to pay additional fees dated November 11, 2004 (4100 P5 PCT)	
	C10	Notification of Transmittal of International Search Report and Written Opinion dated February 21, 2005 (4100 PCT)	
	C11	Notification of transmittal of the International Search report and Written Opinion dated March 14, 2005 (4100 P5 PCT)	
	C12	PCT International Search Report and Written Opinion dated April 28, 2005 for PCT/US04/037870. (AMAT/4100PC09)	

Examiner	Date Considered
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

JAN 31 2005


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Sheet


of 6

Application Number	10/727,724
Filing Date	December 3, 2003
First Named Inventor	Hu, et al.
Group Art Unit	3723
Examiner Name	Thomas, David B.
Attorney Docket Number	4100P9/CMP/CMP/RKK
Submission Date	

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		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-1,601,642	09/28/26	Parker	
	A2	US-1,927,162	09/19/33	Fiedler et al.	
	A3	US-2,112,691	03/29/38	Crowder	
	A4	US-2,240,265	04/29/41	Nachtman	
	A5	US-2,392,687	01/08/46	Nachtman	
	A6	US-2,431,065	11/18/47	Miller	
	A7	US-2,451,341	10/12/48	Jernstedt	
	A8	US-2,453,481	11/09/48	Wilson	
	A9	US-2,454,935	11/30/48	Miller	
	A10	US-2,456,185	12/14/48	Grube	
	A11	US-2,457,510	12/28/48	van Ornum	
	A12	US-2,458,676	01/11/49	Brenner et al.	
	A13	US-2,461,556	02/15/49	Lorig	
	A14	US-2,473,290	06/14/49	Millard	
	A15	US-2,477,808	08/02/49	Jones	
	A16	US-2,479,323	08/16/49	Davis	
	A17	US-2,480,022	08/23/49	Hogaboom	
	A18	US-2,490,055	12/06/49	Hoff	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B1	JP 05-277957	10/26/1993	Nippon Micro Kootaingu KK		X
	B2	JP 10-006213	1/13/1998	Tokyo Seimitsu Co Ltd		X
	B3	JP 2000-218513	8/8/2000	NEC Corp		X
	B4	JP 2001-179611	7/3/2001	NEC Corp		X
	B5	JP 2001-244223	9/7/2001	Hitachi Chem Co Ltd		X

Examiner 

Date Considered 7/11/05

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Sheet 2

of 6

Application Number	10/727,724
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[Signature]	A19	US-2,495,695	01/31/50	Camin et al.	
	A20	US-2,500,205	03/14/50	Schaefer	
	A21	US-2,500,206	03/14/50	Schaefer et al.	
	A22	US-2,503,863	04/11/50	Bart	
	A23	US-2,506,794	05/09/50	Kennedy et al.	
	A24	US-2,509,304	05/30/50	Klein	
	A25	US-2,512,328	06/20/50	Hays	
	A26	US-2,517,907	08/08/50	Mikulas	
	A27	US-2,519,945	08/22/50	Twele et al.	
	A28	US-2,530,677	11/21/50	Berkenkotter et al.	
	A29	US-2,535,966	12/26/50	Teplitz	
	A30	US-2,536,912	01/02/51	Cobertt	
	A31	US-2,539,898	01/30/51	Davis	
	A32	US-2,540,175	02/06/51	Rosenqvist	
	A33	US-2,544,510	03/06/51	Prahl	
	A34	US-2,544,943	05/29/51	Farmer	
	A35	US-2,549,678	04/17/51	Flandt	
	A36	US-2,556,017	06/05/51	Vonada	

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[Signature]	B6	KR 2003-037158	05/12/2003	Samsung Electronics		Abst
	B7	JP 61265279	11/25/1986	Tohoku Metal Ind. Ltd.		Abst
	B8	JP-2870537	3/17/1999	NEC Corp		X
	B9	SU 1618538	1/7/1991	Rredmiyatie		Abst
	B10	WO 93/15879	8/19/1993	3M Co.		

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7/14/05

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M	A37	US-2,560,534	07/17/51	Adler	
	A38	US-2,560,966	07/17/51	Lee	
	A39	US-2,569,577	10/02/51	Reading	
	A40	US-2,569,578	10/02/51	Rieger	
	A41	US-2,571,709	10/16/51	Gray	
	A42	US-2,576,074	11/20/51	Nachtman	
	A43	US-2,587,630	03/04/52	Konrad et al.	
	A44	US-2,619,454	11/25/52	Zapponi	
	A45	US-2,633,452	03/31/53	Hogaboom, Jr., et al.	
	A46	US-2,646,398	07/21/53	Henderson	
M	A47	US-2,656,283	10/20/53	Fink et al.	
	A48	US-2,656,284	10/20/53	Toulmin	
	A49	US-2,657,457	11/03/53	Toulmin	
	A50	US-2,657,177	10/27/53	Rendel	
	A51	US-2,673,836	03/30/54	Vonada	
	A52	US-2,674,550	04/06/54	Dunlevy et al.	
	A53	US-2,675,348	04/13/54	Greenspan	
	A54	US-2,680,710	06/08/54	Kenmore et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>5</sup> -Number <sup>4</sup> -Kind Code <sup>6</sup> (if known)				
M	B11	WO 99/65072	12/16/1999	Speedfam-IPEC Corp		
	B12	WO 02/075804	9/26/2002	Applied Materials		
	B13					
	B14					
	B15					

Examiner

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number

10/727,724

Filing Date

December 3, 2003

First Named Inventor

Hu, et al.

Group Art Unit

3723

Examiner Name

Thomas, David B.

Attorney Docket Number

4100P9/CMP/CMP/RKK

Sheet

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of

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Submission Date

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		Number-Kind Code <sup>2</sup> (if known)			
	A55	US-2,684,939	07/27/54	Geese	
	A56	US-2,689,215	09/14/54	Bart	
	A57	US-2,695,269	11/23/54	de Witz et al.	
	A58	US-2,696,859	08/17/54	Gray et al.	
	A59	US-2,698,832	01/04/95	Swanson	
	A60	US-2,706,173	04/12/55	Wells et al.	
	A61	US-2,706,173	04/12/55	Wells et al.	
	A62	US-2,706,175	04/12/55	Licharz	
	A63	US-2,708,445	05/17/55	Manson et al.	
	A64	US-2,710,834	06/14/55	Vriakak	
	A65	US-2,711,993	06/28/55	Lyon	
	A66	US-3,607,707	09/21/71	Chenevier	
	A67	US-3,334,041	08/01/67	Dyer et al.	
	A68	US-3,433,730	03/18/69	Kennedy et al.	
	A69	US-3,476,677	11/04/69	Corley et al.	
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A73

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5

of 6

Application Number	10/727,724
Filing Date	December 3, 2003
First Named Inventor	Hu, et al.
Group Art Unit	3723
Examiner Name	Thomas, David B.
Attorney Docket Number	4100P9/CMP/CMP/RKK
Submission Date	

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		Number-Kind Code <sup>2</sup> (if known)			
	A73	US-4,312,716	01/26/82	Maschler et al.	
	A74	US-4,752,371	06/21/88	Kreisel et al.	
	A75	US-4,772,361	09/20/88	Dorsett, et al.	
	A76	US-5,061,294	10/29/91	Harmer, et al.	
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	A78	US-5,562,529	10/08/96	Kishii, et al.	
	A79	US-5,823,854	10/20/98	Chen	
	A80	US-5,882,491	03/16/99	Wardle	
	A81	US-5,948,697	09/07/99	Hata	
	A82	US-5,985,093	11/16/99	Chen	
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	A84	US-6,183,354	02/06/01	Zuniga, et al.	
	A85	US-6,190,494	02/20/01	Dow	
	A86	US-6,319,420	11/20/01	Dow	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
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Examiner

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Sheet 6

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Application Number

10/727,724

Filing Date

December 3, 2003

First Named Inventor

Hu, et al.

Group Art Unit

3723

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		Number-Kind Code <sup>2</sup> (if known)			
	A91	US-6,479,962	11/12/02	Ziemkowski, et al.	
	A92	US-6,537,144	03/25/03	Tsai, et al.	
	A93	US-6,666,959	12/23/03	Uzoh, et al.	
	A94	US-2002/0123300	08/05/02	Jones, et al.	
	A95	US-2003/0034131	02/20/03	Park et al.	
	A96	US-			
	A97	US-			
	A98	US-			
	A99	US-			
	A100	US-			
	A101	US-			
	A102	US-			
	A103	US-			
	A104	US-			
	A105	US-			
	A106	US-			
	A107	US-			
	A108	US-			

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B26					
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2/14/05

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Application Number	10/727,724
Filing Date	December 3, 2003
First Named Inventor	Hu, et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	4100P9/CMP/CMP/RKK
Submission Date	

Sheet 1 of 2

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		Number-Kind Code <sup>2</sup> (if known)			
[Signature]	A1	US-5,931,719	8/3/1999	Nagahara et al.	
	A2	US-6,010,395	1/4/2000	Nakajima	
	A3	US-6,413,388	7/2/2002	Uzoh et al.	
	A4	US-6,413,403	7/2/2002	Lindquist et al.	
	A5	US-6,447,668	9/10/2002	Wang	
	A6	US-6,638,863	10/28/2003	Wang et al.	
	A7	US-6,726,823	4/27/2004	Wang et al.	
[Signature]	A8	US-2002/0025760	2/28/2002	LEE, ET AL.	
	A9	US-			
	A10	US-			
	A11	US-			
	A12	US-			
	A13	US-			
	A14	US-			
	A15	US-			
	A16	US-			
	A17	US-			
	A18	US-			

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
[Signature]	B1	JP-2870537	1/8/1999			X
	B2	JP-10-16213	1/20/1998	NEC Corp.		X
	B3	JP-2000-218513	8/8/2000	NEC Corp.		X
	B4	JP-2001-244223	9/7/2001	Hitachi Chem Co. Ltd		X
	B5					

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 2 of 2

<b>Application Number</b>	10/727,724
<b>Filing Date</b>	December 3, 2003
<b>First Named Inventor</b>	Hu, et al.
<b>Group Art Unit</b>	
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	4100P9/CMP/CMP/RKK
<b>Submission Date</b>	

[illegible]**Date Considered**

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Sheet 1

of 1

Application Number	10/727,724
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		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-6,368,184 B1	04-09-2002	Beckage	
	A2	US-2001/0005667 A1	06-28-2001	Tolles et al.	
	A3	US-2002-0119286 A1	08-29-2002	Chen et al.	
	A4	US-			
	A5	US-			
	A6	US-			
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	A8	US-			
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	A11	US-			
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U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
(PTO Form 1449 modified)		4100P9/CMP/CMP/RKK	10/727,724
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant	Confirmation No.:
		Hu, et al.	
(Use several sheets if necessary)		Filing Date	Group
Examiner		12/03/2003	

## Part A

## U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date	If Appropriate
<i>[Signature]</i>	A1	2001/0024878	09/27/2001	Nakamura	438	691	03/26/2001	
<i>[Signature]</i>	A2	2001/0027018	10/04/2001	Molnar	438	690	01/22/2001	
<i>[Signature]</i>	A3	2001/0035354	11/01/2001	Ashjaee, et al.	205	103	12/14/2000	
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<i>[Signature]</i>	A6	2001/0042690	11/22/2001	Talieh	205	118	12/14/2000	
<i>[Signature]</i>	A7	2002/0008036	01/24/2002	Wang	205	118	04/18/2001	
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<i>[Signature]</i>	A10	2002/0025763	02/28/2002	Lee et al.	451	41	06/21/2001	
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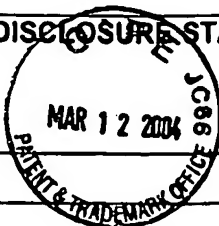
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B2		0 455 455	11/06/1991	EP	B23Q	15/007	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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## Part B

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date Appropriate	If
<i>MM</i>	A1	4,713,149	12/15/1987	Hoshino	204	23		
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OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
	C1							
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Examiner <i>[Signature]</i>					Date Considered <i>7/18/05</i>			
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